

California Integrated
Waste Management Board
www.ciwmb.ca.gov



Take It Back Conference - West
Implementation of California's
E-Waste Recycling Program
San Francisco, CA
March 3, 2004

Board Member Mike Paparian
paparian@ciwmb.ca.gov

E-Waste Recycling in California

The Dilemma

- Storage – 6 Million Monitors/TVs
- Recycled – 20%
- Capacity – 16,000 TPY
- Obsolete – 10,000 Daily
- Transportation – Largest Cost
- Sales – Strong Through 2006



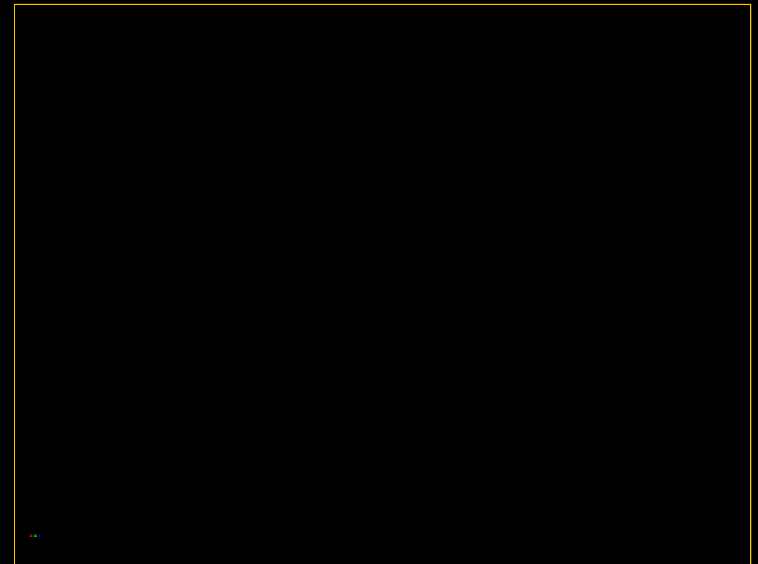
Governor Schwarzenegger

California

Strong Commitment to the
Environment

*"Economic Growth & the
Environment Can Co-Exist..."*

*...Jobs vs. the Environment is a
False Choice"*

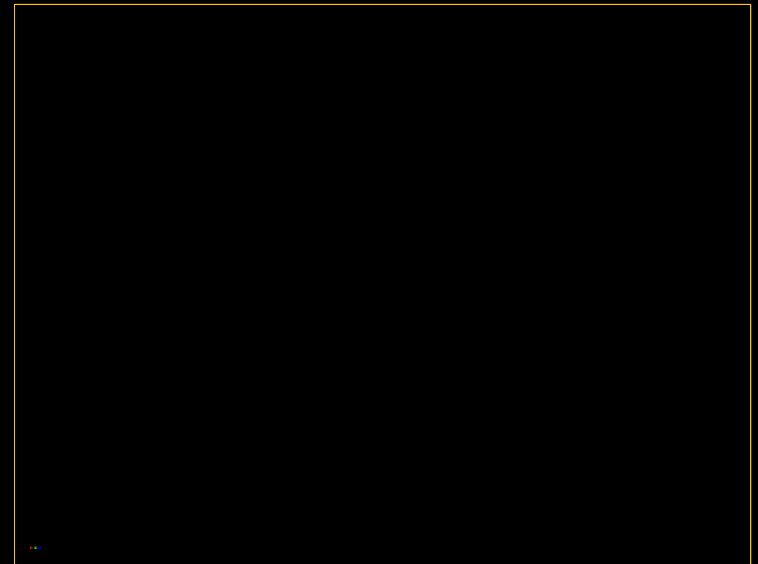


State of the State, 2004

Secretary for Environmental Protection

Terry Tamminen

- ❑ Supports Sound Environmental Programs in Tough Fiscal Times
- ❑ E-Waste Bill: “A Priority of This Administration”



Press Briefing - January, 2004

Exportation of E-Waste Problematic

Basel Treaty

- ❑ Signed by U.S. in 1989
 - ❑ Not Yet Ratified By Senate
- ❑ “Control of Transboundary Movements of Hazardous Waste & Their Disposal”
 - ❑ U.S. Does Not Participate
- ❑ Exportation of E-Waste
 - ❑ Not Sustainable
 - ❑ Significant Impacts



China, 2002

E-Waste Recycling in California

Previous E-Waste Efforts

- ❑ SB 1523 - Davis Veto in 2002
 - ❑ Strong Message Sent to Industry
- ❑ Cal/EPA Secretary & Paparian
 - ❑ Tasked To Lead Cal/EPA Efforts
 - ❑ Manufacturers Were Required to Meet European Directives/Goals
 - ❑ Manufacturers Asked to Apply European Experience to CA



Illegal Dumping - 2003
Long Beach, California

E-Waste Recycling in California

Senate Bill 20

- ❑ Electronic Waste Recycling Act of 2003
- ❑ Senator Sher - SB 20 Author
- ❑ Important “First Step” to E-Waste Management



City of Napa, CA

E-Waste Recycling in California

What's in the Act?

- ❑ Consumers Pay Advance Recycling Fee
 - ❑ Point of Sale Collection
- ❑ CIWMB Will Disburse Payments
 - ❑ E-Waste Collectors & Recyclers
- ❑ Manufacturers to Limit Use of Hazardous Materials
 - ❑ Use of the European Directive (ROHS)
- ❑ State Environmentally Preferred Procurement Policy

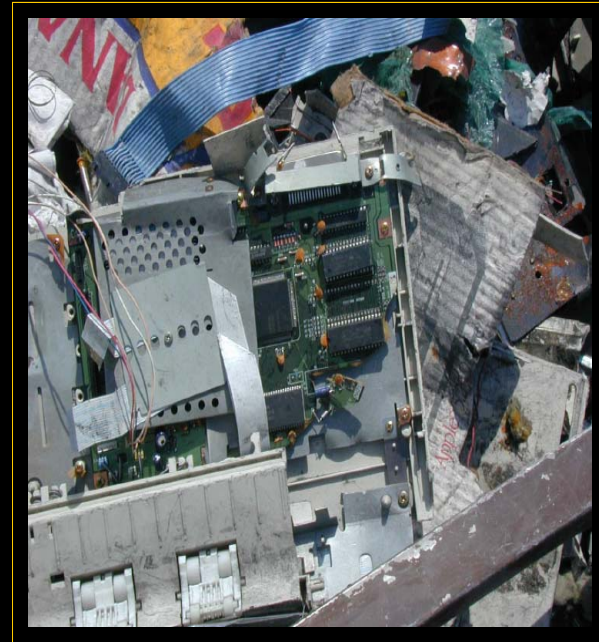


Disassembly

E-Waste Recycling in California

Key Issues

- ❑ Scope & Definitions
- ❑ Fee Collection
- ❑ Recovery & Recycling Payment
- ❑ Manufacturer "Responsibilities"



Scope & Definitions

What's In, What's Out!

- ❑ Cathode Ray Tube (CRT)
- ❑ Computer Monitors & TVs
- ❑ Further Expansion - DTSC
 - ❑ As of March 1 Flat Panel & Laptop Included
- ❑ Fee Structure:
 - ❑ \$6.00 – 4" to 15"
 - ❑ \$8.00 – 15" to 35"
 - ❑ \$10.00 – 35" and Up



Drop-Off Program

E-Waste Recycling in California

Fee Collection

- ❑ Multitude of Retail Businesses (70,000)
 - ❑ Out-of-State Retailers
 - ❑ Internet Sales
- ❑ Our Experience in Fee Collection
 - ❑ Motor Oil
 - ❑ Tires
 - ❑ Tipping Fees
- ❑ Enforcement
 - ❑ Up to \$2500 Per Unit



Recovery Payments to Collectors (Proposed)



Recovery and Recycling Payment

How Much, How Often, & To Whom?

- ❑ Financial Relief
 - ❑ E-Waste Recycler
 - ❑ E-Waste Collection
- ❑ Participation
 - ❑ Local Governments
 - ❑ Nonprofit Organizations



Electronics Partners Corporation
Los Angeles, 2004

E-Waste Recycling in California

Time Frames & Deadlines

- ❑ April 1, 2004
 - ❑ What's In, What's Out
- ❑ July 1, 2004
 - ❑ Fee Collection
 - ❑ E-Waste Recovery/ Recycling Payment Schedule
- ❑ January 2005
 - ❑ All New Products Must Identify Manufacturer



Electronics Partners
Los Angeles, 2004

E-Waste Recycling in California

Time Frames & Deadlines

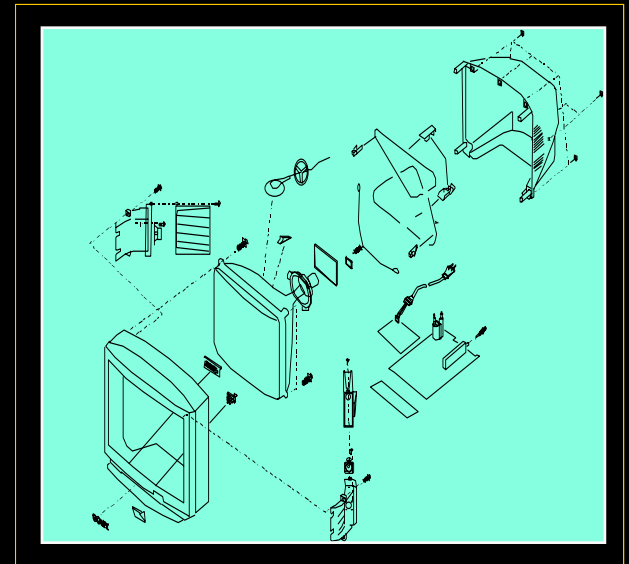
- ❑ July 2005
 - ❑ E-Waste Management Info.
 - ❑ Fee Adjustment
- ❑ July 2006
 - ❑ Payment Adjustment
- ❑ January 2007
 - ❑ DTSC Regulations
- ❑ July 2007
 - ❑ Fee Adjustment
- ❑ December 2007
 - ❑ CRT Stockpiles and Legacy Devices Gone



E-Waste Recycling in California

Manufacturer Responsibilities

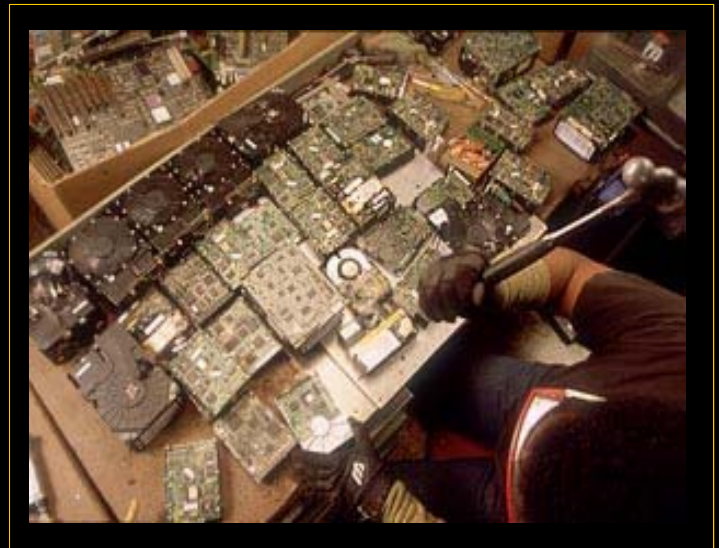
- Notify Retailers About Covered Products
- Provide Information to Consumer
 - Where To Recycle
 - How to Recycle
 - Where to Return
 - How to Dispose
 - Provide Toll-Free Number & Internet Web Site



E-Waste Recycling in California

Manufacturer Responsibilities

- ❑ Report Annual Sales
- ❑ Report Annually – 2005
 - ❑ Number of Devices Sold
 - ❑ Toxic Materials in Devices
 - ❑ Estimate Recycled Content
 - ❑ Design for Recycling Efforts
- ❑ Phase-Out of Hazardous Materials
 - ❑ EU Model by January 1, 2007



E-Waste Recycling in California

Retailer Responsibilities

- ❑ They are the Public Face of E-Waste Program
 - ❑ Raise Public Awareness
- ❑ Collect Fees on Covered Electronic Devices
- ❑ Remit Fees to State Board Of Equalization?
- ❑ May Offer Collection Services



Ventura County Collection

E-Waste Recycling in California

Commitment to Stakeholders

- ❑ Local Governments
- ❑ Private Recyclers
- ❑ Environmental Community
- ❑ Manufacturers
- ❑ Retailers
- ❑ Consumers



E-Waste Recycling in California

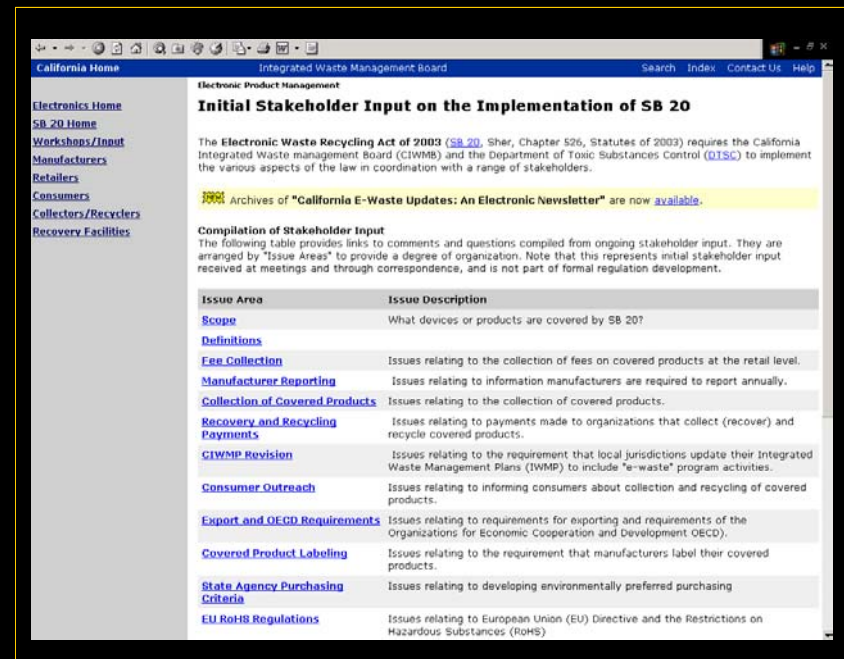
CIWMB Web Site

- ❑ List Serve
- ❑ E-Mail
- ❑ Next Meeting: April 2nd
- ❑ CIWMB

Attn: Matt McCarron

P.O. Box 4025

Sacramento, CA 95812



www.ciwmb.ca.gov/Electronics/

Our Commitment
to Implementation
is Strong



**"I recycle more with
my pinky than you
do with both hands.
Recycle now,
thank me later."**

RECYCLE HARD

California Environmental Protection Agency
California Integrated Waste Management Board

Michael Paparian, Board Member

www.ciwmb.ca.gov/electronics

